Project #

12SF073

Site Name:

Dimock Residential Groundwater

U.S. EPA Region 6 Laboratory

Laboratory Report Approval and Release Authorization

Signing the approval below indicates that the data for the above named site/activity number has been reviewed. All data is complete for the samples received and quality control is within acceptable limits. Any exceptions have been noted in the comments section.

REPORT APPROVALS	COMMENTS
•	
	· -
David Stockton Date Inorganic Team Leader	
morganic ream seader	
Manue Hard 328/12 Diane Gregg Date	
Organic Team Leader	
Melvin Ritter Date	
Laboratory Support Team Leader	·
Sylvia Gorostiza OA Coordinator Sylvia Gorostiza OA Coordinator	3
•	
Manaka Ukasakan	
Marvelyn Humphrey Date Associate Branch Chief	
, lossific Branch Child	
REPORT RELEASE AUTHORIZATION	COMMENTS
Robond Mylle 3/30)	/2
Richard McMillin Date	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

10625 Fallstone Rd, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

WORK ORDER

Printed: 3/7/2012 12:06:29PM

1203005

U.S. EPA, Region 6 ATTN: Christy Warren

Client: R6 Regional Support

Project: Dimock Residential Groundwater Site

Project Manager: Christy Warren

Project Number: 12SF073

Report To:

R6 Regional Support Cynthia Caporale (3EA21)

10625 Fallstone Road

Houston, TX 77099 Phone: (281) 983-2100 GPRA Code:

Cerclis Number:

Site Spill ID:

Date Due:

Fax: (281) 983-2248

03/28/12 15:00 (15 day TAT)

Received By:

Isaiah Harris

Date Received:

03/07/12 09:50

Logged In By:

On Ice

Christy Warren

Date Logged In:

Prelim results ASAP. Final hardcopy TAT = 21 days

03/07/12 11:59

Samples Received at:

6°C

Package Custody Seal Yes

Yes

Sample Tags Chain of Custody

No Yes

Yes Intact Sample Custody Seals Yes

Preserved

No

Analysis	Due	TAT	Expires	Comments	
1203005-01 FB19 [Liquid] Sai	mpled 03/05/12 09:3	36 Centra	1		
ABN Glycols	3/28/12	15	03/12/12 09:36		
1203005-02 HW56 [Liquid] Sa	ampled 03/05/12 16	:54 Centr	al	Extra volume for QC	
ABN Glycols	3/28/12	15	03/12/12 16:54		<u>. </u>
1203005-03 HW60 [Liquid] Sa	ampled 03/05/12 12	:25 Centr	al		
ABN Glycols	3/28/12	15	03/12/12 12:25		
ADIX GIYCOIS	***************************************	13	UJi 12i 12 12.23		=

yotz Waven

EPA Region 6 Laboratory

Sample Log In/Corrective Action Form

Project Number/Work Order Numbe	r (Number of Samples [i.e. 0	1 - 10])	12SF073	1/12	03005(01-03		Time Received:	91	50	
Number of Coolers:				/		•				
Delivered By:	Fed Ex Airborne		USPS		Hand Delivered		UPS		Other	
Ice Chest Custody Seal:	Intact		Not-Intact		Absent		Not Applicable			
Ice Chest Packing:	Ice		Vermiculite	7	Zip Lock Bags		Bubble Wrap	/	Other	
Condition of Samples:	Intact		Leaking		Broken					
Sample Custody Seals:	Intact		Not Intact		Absent					
Chain of Custody:	Present		Absent							
Sample Tags:	Present		Absent							
Is the Sample Tag Marked for Chemical Preservation (if required):	Yes		No		Not Applicable					
Is the Sample Tag Marked with the correct chemical preservation? (if required):	Yes		No		Not Applicable					
Comments:										

Page 1 of 1

USEPA CLP Generic COC (LAB COPY)

CHAIN OF CUSTODY RECORD

DateShipped: 3/6/2012 CarrierName: FedEx

CarrierName: FedEx
AirbillNo: 7981 3489 3053

Case #: CT5928

No: 3-030612-085615-0247

Lab: EPA R6 Laboratory Lab Contact: Christy Warren

Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB19	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	19052 (-NA- / 40mlGlassVial), 19053 (-NA- / 40mlGlassVial) (2)	FB19	03/05/2012 09:36	
HW56	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol	19119 (-NA- / 40mlGlassVial), 19120 (-NA- / 40mlGlassVial), 19138 (-NA- / 40mlGlassVial), 19139 (-NA- / 40mlGlassVial), 19140 (-NA- / 40mlGlassVial), 19141 (-NA- / 40mlGlassVial) (6)	HW56	03/05/2012 16:54	
HW60	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19085 (-NA- / 40mlGlassVial), 19086 (-NA- / 40mlGlassVial) (2)	HW60	03/05/2012 12:25	
					·		
				·			
				-			

	Shipment for Case Complete? N
Sample(s) to be used for Lab QC: HW56	Samples Transferred From Chain of Custody #
Analysis Key	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
10	Dacovore	3/6/12	I saigh Harris	37/12	9:50						
							. '				
										_	

Sample Temp: 6°C

From: (304) 230-1230

Origin ID: BGMA

Brian BurnsSample Management_Dim

TechLaw, Inc. 63 PENNFIELD RD

MONTROSE, PA 18801



BILL SENDER

SHIP TO: (281) 983-2137
Christy Warren
U.S. EPA Region 6 Laboratory
10625 FALLSTONE RD
SAMPLE CONTROL CENTER
HOUSTON, TX 77099

Ship Date: 06MAR12 ActWgt: 10.0 LB CAD: 8747913/INET3250

Delivery Address Bar Code



Ref#

TL01-11-12-00

Invoice # PO # Dept #

0201

WED - 07 MAR A2 PRIORITY OVERNIGHT

ASR

77099

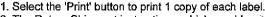
TX-US

XH SGRA

7981 3489 3053



3:2G1/61D3/F



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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

10625 Fallstone Rd, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

WORK ORDER

Printed: 3/8/2012 10:58:11AM

1203007

U.S. EPA, Region 6 ATTN: Christy Warren

Client: R6 Regional Support

Project: Dimock Residential Groundwater Site

Project Manager: Christy Warren

Project Number: 12SF073

Report To:

R6 Regional Support

Cynthia Caporale (3EA21)

10625 Fallstone Road

Houston, TX 77099 Phone: (281) 983-2100

Fax: (281) 983-2248

Date Due:

04/06/12 15:00 (21 day TAT)

Received By:

Isaiah Harris

Date Received:

GPRA Code:

Site Spill ID:

Cerclis Number:

03/08/12 09:00

Logged In By:

Isaiah Harris

Date Logged In:

03/08/12 10:47

Samples Received at: 4°C

Package Custody Seal Yes

On Ice

Yes

Sample Tags Chain of Custody Preserved

Yes No

Intact Yes Sample Custody Seals No

Prelim results ASAP. Final hardcopy TAT = 21 days Yes

Analysis Due TAT **Expires** Comments 1203007-01 FB20 [Liquid] Sampled 03/06/12 14:00 Central 4/3/12 ABN Glycols 18 03/13/12 14:00 1203007-02 HW61 [Liquid] Sampled 03/06/12 15:42 Central 4/3/12 ABN Glycols 18 03/13/12 15:42 1203007-03 HW61-P [Liquid] Sampled 03/06/12 16:00 Central ABN Glycols 03/13/12 16:00 1203007-04 HW61z [Liquid] Sampled 03/07/12 15:42 Central 4/3/12 ABN Glycols 18 03/14/12 15:42 TW

zWauen_

EPA Region 6 Laboratory

Sample Log In/Corrective Action Form

	~ .	·			•	•				
Site Name: Dimock F	residential G	rou	udwate	<u></u>	Date Received:	-8	-12	*		
Site Name: Dimock F Project Number/Work Order Number	per (Number of Samples [i.e.	01 - 10])	125F0	73/1	203007(01-	04)	Time Received:	9:	00	_
Number of Coolers:				/					·	
Delivered By:	Fed Ex DAirborne	1	USPS		Hand Delivered		UPS		Other	
Ice Chest Custody Seal:	Intact		Not-Intact		Absent		Not Applicable			
Ice Chest Packing:	Ice		Vermiculite		Zip Lock Bags		Bubble Wrap		Other	
Condition of Samples:	Intact		Leaking		Broken					,
Sample Custody Seals:	Intact		Not Intact		Absent	-				
Chain of Custody:	Present		Absent							
Sample Tags:	Present		Absent							
Is the Sample Tag Marked for Chemical Preservation (if required):	Yes		No		Not Applicable					
Is the Sample Tag Marked with the correct chemical preservation? (if required):	Yes		No		Not Applicable	/		·		
Comments:								•		
										, .

•				
Project Officer (PO):		Phone #: _		
	:			,
Notified PO of any discrepancies/problems on	t	by .		
	(Date)	(Initial)	• *	

Page 1 of 1

USEPA CLP Generic COC (LAB COPY)

CHAIN OF CUSTODY RECORD

DateShipped: 3/7/2012 CarrierName: FedEx

AirbillNo: 7981 4076 7688

Case #: CT5928

No: 3-030712-111413-0253

Lab: EPA R6 Laboratory Lab Contact: Christy Warren

Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB20	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	19242 (-NA- / 40mlGlassVial), 19243 (-NA- / 40mlGlassVial) (2)	FB20	03/06/2012 14:00	Only
HW61	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19172 (-NA- / 40mlGlassVial), 19173 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 15:42	
HW61-P	Drinking Water/ Brian Burris	Grab	Ethylene Glycol, Ethylene Glycol	19216 (-NA- / 40mlGlassVial), 19217 (-NA- / 40mlGlassVial) (2)	HW61-P	03/06/2012 16:00	
HW61z	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19198 (-NA- / 40mlGlassVial), 19199 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 15:42	
							,
					·		

		Shipment for Case Complete? N
Special Instructions:		Samples Transferred From Chain of Custody #
	_	
Analysis Key		

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
8	Dalley	3/7/12	Isaph Harris	3/8/2	9:80						
		F									
			. '								

Sample Temp: 4°C

From: (304) 230-1230

Origin ID: BGMA

Brian Burris Sample Management_Dim

Techlaw Inc. 63 PENNFIELD RD

MONTROSE, PA 18801



SHIP TO: (281) 983-2137 **Christy Warren**

U.S. EPA Region 6 Laboratory 10625 FALLSTONE RD SAMPLE CONTROL CENTER **HOUSTON, TX 77099**

BILL SENDER

Invoice # PO# Dept#

Ship Date: 07MAR12 ActWgt: 10.0 LB CAD: 8747913/INET3250

Delivery Address Bar Code



Ref#

THU - 08 MAR A2 PRIORITY OVERNIGHT 7981 4076 7688

TRK# 0201

ASR 77099 TX-US IAH

XH SGRA



1. Select the 'Print' button to print 1 copy of each label.

2. The Return Shipment instructions, which provide your recipient with information on the returns process, will be printed with the label(s).

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

10625 Fallstone Rd, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

WORK ORDER

Printed: 3/9/2012 11:26:10AM

1203012

U.S. EPA, Region 6 ATTN: Christy Warren

Client: R6 Regional Support

Project: Dimock Residential Groundwater Site

Project Manager: Christy Warren

Project Number: 12SF073

Report To:

R6 Regional Support Cynthia Caporale (3EA21)

10625 Fallstone Road

Houston, TX 77099 Phone: (281) 983-2100 Fax: (281) 983-2248

GPRA Code:

Cerclis Number:

Site Spill ID:

Date Due:

03/30/12 15:00 (15 day TAT)

Received By:

Isaiah Harris

Date Received:

03/09/12 09:30

Logged In By:

On Ice

Christy Warren

Date Logged In:

Prelim results ASAP. Final hardcopy TAT = 21 days

03/09/12 09:32

Samples Received at:

4°C Package Custody Seal Yes

Yes

Sample Tags Chain of Custody

Yes Yes

Intact Yes Sample Custody Seals No

Preserved

Analysis	Due	TAT	Expires	Comments	
1203012-01 FB21 [Liquid]	Sampled 03/08/12 13:3	38 Centra	I		
ABN Glycols	3/30/12	15	03/15/12 13:38		
1203012-02 HW50 [Liquid	I] Sampled 03/08/12 15	:09 Centr	al		
ABN Glycols	3/30/12	15	03/15/12 15:09		

z Warren

EPA Region 6 Laboratory

Sample Log In/Corrective Action Form

Site Name: Dimack R	, esidential Gro	rund	water	*******	Date Received: 3	9-	12			
Site Name: Dimack Reproject Number/Work Order Number	er (Number of Samples [i.e. 0	1 - 10})	: 125F073	120	3012 (01-02)		Time Received:	<u> 7::</u>	30	
Number of Coolers:			, , , , , , , , , , , , , , , , , , ,							•
Delivered By:	Fed Ex Airborne	-	USPS		Hand Delivered		UPS		Other	
Ice Chest Custody Seal:	Intact		Not-Intact		Absent		Not Applicable			
Ice Chest Packing:	Ice		Vermiculite		Zip Lock Bags	.	Bubble Wrap		Other	
Condition of Samples:	Intact		Leaking		Broken					
Sample Custody Seals:	Intact		Not Intact		Absent			-		
Chain of Custody:	Present		Absent							
Sample Tags:	Present		Absent							
Is the Sample Tag Marked for Chemical Preservation (if required):	Yes		No -		Not Applicable					
Is the Sample Tag Marked with the correct chemical preservation? (if required):	Yes		No		Not Applicable					
Comments:		•								
Initial:Date	e: <u>3-9-12</u>									-
		·		•						
Project Officer (PO):	· ·		Phone #:			_				

by

(Date)

(Initial)

Notified PO of any discrepancies/problems on

Page 1 of 1

USEPA CLP Generic COC (LAB COPY)

CHAIN OF CUSTODY RECORD

DateShipped: 3/8/2012

CarrierName: FedEx AirbillNo: 7981 4835 1266 Case #: CT5928

No: 3-030812-165546-0262

Lab: EPA R6 Laboratory

Lab Contact: Christy Warren Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB21	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	18960 (-NA- / 40mlGlassVial), 18961 (-NA- / 40mlGlassVial) (2)	FB21	03/08/2012 13:38	
HW50	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	18999 (-NA- / 40mlGlassVial), 19000 (-NA- / 40mlGlassVial) (2)	HW50	03/08/2012 15:09	
			·				
							<u> </u>
	·			·			•
				-			
				:			

		Shipment for Case Complete? N
Special Instructions:		Samples Transferred From Chain of Custody #
	•	
Analysis Key		

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4	Maconone.	3/8/12	I saigh Harris	39/12	9:30						
	4										

Sample Tonp, 40 C

From: (304) 230-1230 Origin ID: BGMA Brian Burris Sample Management_Dim Techl.aw. Inc. 63 PENNFIELD RD

MONTROSE, PA 18801

J12101112190225 **BILL SENDER**

SHIP TO: (281) 983-2137 **Christy Warren** U.S. EPA Region 6 Laboratory 10625 FALLSTONE RD SAMPLE CONTROL CENTER **HOUSTON, TX 77099**



Ship Date: 08MAR12 ActWgt 8.0 LB CAD: 8747913/INET3250

Delivery Address Bar Code



Ref# P0#

Invoice # Dept#

0201

FRI - 09 MAR A2 PRIORITY OVERNIGHT

> **ASR** 77099

TX-US

IAH

XH SGRA

7981 4835 1266



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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch 10625 Fallstone Road, Houston, TX 77099 Phone: (281)983-2100 Fax: (281)983-2248

Amended Final Analytical Report

Site NameDimock Residential Groundwater Site
Sample Collection Date(s) 03/05/12 - 03/08/12
Contact Cynthia Caporale (3EA21)
Report Date05/01/12
Project # 12SF073
Work Order(s) 1203005
1203007
1203012

Analyses included in this report:

ABN Glycols

Report Narrative

This report has been amended to correct the date of collection on sample 1203007-04 from 03/07/12 to 03/06/12.

The reporting limit for these compounds is 2 mg/L. The nominal detection limit is 0.5 mg/L. There were no compounds detected between the detection limit and the reporting limit.

On the day the samples were analyzed propylene glycol was left out of the Blank Spike (BS). Both ethylene and propylene glycol were spiked into the MS/MSD and the recoveries were acceptable. Because the MS/MSD can substitute for the BS in the method the samples were not reanalyzed. A blank and BS were reanalyzed additionally at a later date and results were acceptable. No targets were detected in the samples.

Concentrations reported in the QC have changed slightly since the draft report was issued due to a minor change in the calibration and an adjustment to the volume used for the matrix spikes determined during the final data review process.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin

Region 6 Laboratory Manager

David Neleigh

Region 6 Laboratory Branch Chief

CANTED STATES

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwater Si	ite Project Number: 12SF073
Data Management Coordinator: Christy Warren	512 112-
Data Management Coordinator Signature	Date
Date Transmitted: 5/2/17	
Please have the U.S. EPA Project Manager/Offic comments or questions.	eer call the Data Management Coordinator at 3-2137 for any
Please sign and date this form below and return i	t with any comments to:
Christy Warren Data Management Coordinator Region 6 Laboratory 6MD-HS	
Received by and Date	
Comments:	
The laboratory routinely disposes of samples 90 hold these samples in custody longer than 90 day	days after all analyses have been completed. If you have a need to
Signature	Date
Please provide a reason for holding:	



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB19	1203005-01	Liquid	3/5/12 9:36	03/07/12 09:50
HW56	1203005-02	Liquid	3/5/12 16:54	03/07/12 09:50
HW60	1203005-03	Liquid	3/5/12 12:25	03/07/12 09:50
FB20	1203007-01	Liquid	3/6/12 14:00	03/08/12 09:00
HW61	1203007-02	Liquid	3/6/12 15:42	03/08/12 09:00
HW61-P	1203007-03	Liquid	3/6/12 16:00	03/08/12 09:00
HW61z	1203007-04	Liquid	3/6/12 15:42	03/08/12 09:00
FB21	1203012-01	Liquid	3/8/12 13:38	03/09/12 09:30
HW50	1203012-02	Liquid	3/8/12 15:09	03/09/12 09:30

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559

Page 1 of 16

DIM0096205 DIM0096241



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-01

Station ID: FB19

Batch: B2C0702

Sample Type: Liquid

Date Collected: 03/05/12

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	U	ır	11
						lave

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559

Page 2 of 16

DIM0096205



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-02

Station ID: HW56

Batch: B2C0702

Date Collected: 03/05/12 Sample Type: Liquid Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	. U		2.0	11	11	11
						1aua

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559

Page 3 of 16

DIM0096243 DIM0096205



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-03

Station ID: HW60

Batch: B2C0702

Sample Type: Liquid

Date Collected: 03/05/12 Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	"	ir
						lave

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559

Page 4 of 16



Region 6 Laboratory

10625 Falistone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-01

Station ID: FB20

Batch: B2C0702 Sample Type: Liquid

Date Collected: 03/06/12

Sample Qualifiers:

Sample Vol: 1ml

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	Ų		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	Ŭ	•	2.0	"	Ħ	It

kws

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559

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DIM0096245

DIM0096205



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-02

Station ID: HW61

Batch: B2C0702

Sample Type: Liquid

Date Collected: 03/06/12

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	11	Ħ
						kws

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-03

Station ID: HW61-P

Batch: B2C0702

Sample Type: Liquid

Date Collected: 03/06/12

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	· U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	tt	*1	11
						lawe

kw\$

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559

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DIM0096205 DIM0096247



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-04

Station ID: HW61z

Batch: B2C0702

Date Collected: 03/06/12 Sample Type: Liquid

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	. U		2.0	ır	"	11
						kwe

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-01

Station ID: FB21

Batch: B2C0702

Date Collected: 03/08/12 Sample Vol: 1ml

Sample Qualifiers:

Sample Type: Liquid

Targets

	•	Q				
Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	11	. "

kws

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559 Page 9 of 16

DIM0096205 DIM0096249



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-02

Station ID: HW50

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/08/12

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U	en and	2.0	rr	11	11
						kwe

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 Sample Type: Liquid

Blank (B2C0702-BLK1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result Anal mg/L Quali	yte Reporting fiers Limit	
Propylene glycol	U	2.0	
Ethylene glycol	U	2.0	

Blank (B2C0702-BLK2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE		Analyte Reporting Qualifiers Limit		
Propylene glycol	U	2.0		
Ethylene glycol	ប	2.0		

LCS (B2C0702-BS1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE		Analyte Reporting Qualifiers Limit		%REC %REC Limits
Ethylene glycol	53.0	2.0	50.0	106 70-130

LCS (B2C0702-BS2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits	
Propylene glycol	50.6	2.0	50.0	101 70-130	
Ethylene glycol	58.0	2.0	50.0	116 70-130	

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559

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DIM0096251 DIM0096205



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 Sample Type: Liquid

Matrix Spike (B2C0702-MS1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte R Qualifiers	eporting Limit	Spike Level	Source Result	%REC	%REC Limits	
Propylene glycol	55.7		2.0	66.7		83.6	70-130	
Ethylene glycol	67.6		2.0	66.7		101	70-130	

Matrix Spike Dup (B2C0702-MSD1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Propylene glycol	53.7	2.0	66.7		80.6	70-130	3.61	30
Ethylene glycol	67.5	2.0	66.7		101	70-130	0.08	30

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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DIM0096253



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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DIM0096255

STATES STATES

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

A This sample was extracted at a single acid pH.

HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be

considered minimum values.

AES Atomic Emission Spectrometer

CVAA Cold Vapor Atomic Absorption

ECD Electron Capture Detector

GC Gas Chromatograph

GFAA Graphite Furnace Atomic Absorption

ICP Inductively Coupled Plasma

MS Mass Spectrometer

NA Not Applicable

NPD Nitrogen Phosphorous Detector

NR Not Reported

TCLP Toxicity Characteristic Leaching Procedure

U Undetected

Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds per square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

Report Name: 1203005,1203007,1203012 FINAL 05 01 12 1559

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LIMS Final Report Checklist

Project Name:	Dimóck Residential Ground	dwa	ter		
Project Number:	125F073				
Work Order Numbers:	1203005,1203007, 1203012				
Report Format:	Rb Chem (31).rpt				
To covert the date of collection on sample 1208007-04 from 3/7/12 to 3/6/12.					
		Yes	No	N/A	
1. Is the site name correct on the pri	nted report?			•	
2. Is the Project Number correct on t	he printed report?			-	
3. Are the sample collection dates correctly printed on the report?					
4. Is the correct contact person printed on the report?					
5. Are the Work Order Number(s) correct on the printed report?					
6. Are the correct Work Orders included in the report?					
7. Are the Station IDs correct on the printed report?					
8. Is all appropriate sample data printing on the report?					
9. Is all of the case narrative printing on the report?					
10. Did all of the pages of the report print? Are they all numbered? Plu Ohlu					
11. If TCEQ parameters were reques	sted has the transfer file been stored in the your on the final report?		٠	<u></u>	
12. Has the EDD been created and saved?					
13. Has the PDF of the final report be	een created and saved?				

Reviewed By:	móts u)anes	,	Date: 4	~ 5/1/12 W
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch 10625 Fallstone Road, Houston, TX 77099 Phone: (281)983-2100 Fax: (281)983-2248

Amended Final Analytical Report

Site NameDimock Residential Groundwater Site
Sample Collection Date(s) 03/05/12 - 03/08/12
Contact Cynthia Caporale (3EA21)
Report Date04/04/12
Project # 12SF073
Work Order(s) 1203005
1203007
1203012

Analyses included in this report:

ABN Glycols

Report Narrative

This report has been amended to correct the units in the case narrative from ug/L to mg/L.

The reporting limit for these compounds is 2 mg/L. The nominal detection limit is 0.5 mg/L. There were no compounds detected between the detection limit and the reporting limit.

On the day the samples were analyzed propylene glycol was left out of the Blank Spike (BS). Both ethylene and propylene glycol were spiked into the MS/MSD and the recoveries were acceptable. Because the MS/MSD can substitute for the BS in the method the samples were not reanalyzed. A blank and BS were reanalyzed additionally at a later date and results were acceptable. No targets were detected in the samples.

Concentrations reported in the QC have changed slightly since the draft report was issued due to a minor change in the calibration and an adjustment to the volume used for the matrix spikes determined during the final data review process.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin

Region 6 Laboratory Manager

David Neleigh

Region 6 Laboratory/Branch Chief

WAS STATED TO STATE OF THE PROPERTY OF THE PRO

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwate	er Site Project Number: 12SF073
Data Management Coordinator: Christy War Data Management Coordinator Signature	Tren 4/5//2— Date
Date Transmitted: 4/5/12	
Please have the U.S. EPA Project Manager/O comments or questions.	Officer call the Data Management Coordinator at 3-2137 for any
Please sign and date this form below and retu	irn it with any comments to:
Christy Warren Data Management Coordinator Region 6 Laboratory 6MD-HS	
Received by and Date	
Comments:	
The laboratory routinely disposes of samples hold these samples in custody longer than 90	90 days after all analyses have been completed. If you have a need to days, please sign below.
Signature	Date
Please provide a reason for holding:	

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB19	1203005-01	Liquid	3/5/12 9:36	03/07/12 09:50
HW56	1203005-02	Liquid	3/5/12 16:54	03/07/12 09:50
HW60	1203005-03	Liquid	3/5/12 12:25	03/07/12 09:50
FB20	1203007-01	Liquid	3/6/12 14:00	03/08/12 09:00
HW61	1203007-02	Liquid	3/6/12 15:42	03/08/12 09:00
HW61-P	1203007-03	Liquid	3/6/12 16:00	03/08/12 09:00
HW61z	1203007-04	Liquid	3/7/12 15:42	03/08/12 09:00
FB21	1203012-01	Liquid	3/8/12 13:38	03/09/12 09:30
HW50	1203012-02	Liquid	3/8/12 15:09	03/09/12 09:30

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532

Page 1 of 16

DIM0096261 DIM0096205



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-01

Station ID: FB19

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/05/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	rı	Ħ
						leve

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532

Page 2 of 16



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-02

Station ID: HW56

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/05/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	11	П
•						lovs

kws

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532 Page 3 of 16



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-03

Station ID: HW60

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/05/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	11	H
						lane

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-01

Station ID: FB20

Batch: B2C0702

Sample Type: Liquid

Date Collected: 03/06/12

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	п	**	11
						kws

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532 Page 5 of 16

DIM0096265 DIM0096205



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-02

Station ID: HW61

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/06/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	11	*1
						kws

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532 Page 6 of 16

DIM0096266



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-03

Station ID: HW61-P

Batch: B2C0702

Sample Type: Liquid

Date Collected: 03/06/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	11	. 11
						kws

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532

Page 7 of 16



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-04

Station ID: HW61z

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/07/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	rr	11
						kws

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532

Page 8 of 16



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-01 Station ID: FB21

Batch: B2C0702

Date Collected: 03/08/12 Sample Type: Liquid Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	Ħ.	11	11
						kws

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

1203012-02 Lab ID:

Station ID: HW50

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/08/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U	•	2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	II	rı .	11
						hwe

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 Sample Type: Liquid

Blank (B2C0702-BLK1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L (Analyte Reporting Qualifiers Limit	
Propylene glycol	U	2.0	
Ethylene glycol	U	2.0	

Blank (B2C0702-BLK2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result A mg/L Q	Analyte Reporting valifiers Limit	
Propylene glycol	U	2.0	
Ethylene glycol	U	2.0	

LCS (B2C0702-BS1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits	
Ethylene glycol	53.0	2.0	50.0	106 70-130	

LCS (B2C0702-BS2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result Ana mg/L Qual	llyte Reporting Spike ifiers Limit Level	%REC %REC Limits	
Propylene glycol	50.6	2.0 50.0	101 70-130	
Ethylene glycol	58.0	2.0 50.0	116 70-130	

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532

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DIM0096271 DIM0096205



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 Sample Type: Liquid

Matrix Spike (B2C0702-MS1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC	%REC Limits	
Propylene glycol	55.7	2.0	66.7		83.6	70-130	
Ethylene glycol	67.6	2.0	66,7		101	70-130	

Matrix Spike Dup (B2C0702-MSD1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

	Result	Analyte Reporting	Spike	Source		%REC		RPD
ANALYTE	mg/L	Qualifiers Limit	Level	Result	%REC	Limits	RPD	Limit
Propylene glycol	53.7	2.0	66.7		80.6	70-130	3.61	30
Ethylene glycol	67.5	2.0	66.7		101	70-130	0.08	30

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532

Page 12 of 16

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532 Page 13 of 16



CHAIN OF CUSTODY RECORD

USEPA CLP Generic COC (LAB COPY)

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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######################################	Drinking Water Alka Fanar	ĝ	Ethylene Gyo	Ethjera Gyzu, Ethylene Glycol	19172 (-144-1 -40m(29assVal) 19172 (-144- -42m(3)assVal) (2)	77 773(48) 84(3)	191/61	63:06/2012 16:42	Common on the common of
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Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532 Page 14 of 16

STATES TO STATES

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532 Page 15 of 16

PROTECTED STRINGS

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

A This sample was extracted at a single acid pH.

HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be

considered minimum values.

AES Atomic Emission Spectrometer

CVAA Cold Vapor Atomic Absorption

ECD Electron Capture Detector

GC Gas Chromatograph

GFAA Graphite Furnace Atomic Absorption

ICP Inductively Coupled Plasma

MS Mass Spectrometer

NA Not Applicable

NPD Nitrogen Phosphorous Detector

NR Not Reported

TCLP Toxicity Characteristic Leaching Procedure

U Undetected

Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

Report Name: 1203005,1203007,1203012 FINAL 04 04 12 1532

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LIMS Final Report Checklist

Project Name: Dimock Residential Grounds	wer		
Project Number: 125F073			
Work Order Numbers: 1203005, 1203007, 1203012-			
Report Format: R6 Chem (30). rpt			
Amended Report to correct units in case narrative from vall to mg/L.			
	Yes	No	N/A
Is the site name correct on the printed report?			
2. Is the Project Number correct on the printed report?	~		-
Are the sample collection dates correctly printed on the report?	V		
4. Is the correct contact person printed on the report?	V		
5. Are the Work Order Number(s) correct on the printed report?	~		
6. Are the correct Work Orders included in the report?			
7. Are the Station IDs correct on the printed report?	V		
8. Is all appropriate sample data printing on the report?	V		
9. Is all of the case narrative printing on the report?	V		
10. Did all of the pages of the report print? Are they all numbered? Ploolo	V		
11. If TCEQ parameters were requested has the transfer file been stored in the LIMS and is the data printing correctly on the final report?			/
12. Has the EDD been created and saved?	V		
13. Has the PDF of the final report been created and saved?			
	·	-	

Reviewed By: Christal Danes	,	Date: 4/3/12	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch 10625 Fallstone Road, Houston, TX 77099 Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site NameDimock Residential Groundwater Site
Sample Collection Date(s) 03/05/12 - 03/08/12
Contact Cynthia Caporale (3EA21)
Report Date03/30/12
Project # 12SF073
Work Order(s)1203005
1203007
1203012

Analyses included in this report:

ABN Glycols

Report Narrative

The reporting limit for these compounds is 2 ug/L. The nominal detection limit is 0.5 ug/L. There were no compounds detected between the detection limit and the reporting limit.

On the day the samples were analyzed propylene glycol was left out of the Blank Spike (BS). Both ethylene and propylene glycol were spiked into the MS/MSD and the recoveries were acceptable. Because the MS/MSD can substitute for the BS in the method the samples were not reanalyzed. A blank and BS were reanalyzed additionally at a later date and results were acceptable. No targets were detected in the samples.

Concentrations reported in the QC have changed slightly since the draft report was issued due to a minor change in the calibration and an adjustment to the volume used for the matrix spikes determined during the final data review process.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin

Region 6 Laboratory Manager

David Neleigh

Region 6 Laboratory Branch Chief

United STATES

Please provide a reason for holding:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwater	r Site Project Number: 12SF073
Data Management Coordinator: Christy Warn Data Management Coordinator Signature	7 3012— Date
Date Transmitted: 3/30/12-	
Please have the U.S. EPA Project Manager/O comments or questions.	officer call the Data Management Coordinator at 3-2137 for any
Please sign and date this form below and return	rn it with any comments to:
Christy Warren Data Management Coordinator Region 6 Laboratory 6MD-HS	
Received by and Date	
Comments:	
The laboratory routinely disposes of samples hold these samples in custody longer than 90	90 days after all analyses have been completed. If you have a need to days, please sign below.
Signature	Date



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB19	1203005-01	Liquid	3/5/12 9:36	03/07/12 09:50
HW56	1203005-02	Liquid	3/5/12 16:54	03/07/12 09:50
HW60	1203005-03	Liquid	3/5/12 12:25	03/07/12 09:50
FB20	1203007-01	Liquid	3/6/12 14:00	03/08/12 09:00
HW61	1203007-02	Liquid	3/6/12 15:42	03/08/12 09:00
HW61-P	1203007-03	Liquid	3/6/12 16:00	03/08/12 09:00
HW61z	1203007-04	Liquid	3/7/12 15:42	03/08/12 09:00
FB21	1203012-01	Liquid	3/8/12 13:38	03/09/12 09:30
HW50	1203012-02	Liquid	3/8/12 15:09	03/09/12 09:30

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-01

Station ID: FB19

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/05/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	н	Ħ
						Į

kws

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335 Page 2 of 16



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-02

Station ID: HW56

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/05/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U.		2.0	11	*1	11
	·					truce

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-03

Station ID: HW60

Batch: B2C0702

Sample Type: Liquid

Date Collected: 03/05/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	Ū		2.0		н	11
						lave

kws

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335 Page 4 of 16



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-01

Station ID: FB20

Batch: B2C0702

Date Collected: 03/06/12 Sample Volume: 1 ml

Sample Qualifiers:

Sample Type: Liquid

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	H	17

kws

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-02

Station ID: HW61

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/06/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	. U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	n n	19	19
						kws

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-03

Station ID: HW61-P

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/06/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U ·		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U U		2.0	II	11	11
						leveo

kws

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335

Page 7 of 16



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-04

Station ID: HW61z

Batch: B2C0702

Date Collected: 03/07/12 Sample Volume: 1 ml

Sample Qualifiers:

Sample Type: Liquid

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	11	tr
						kws

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335

Page 8 of 16



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-01

Station ID: FB21

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/08/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	11	"

kws

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-02

Sample Type: Liquid

Station ID: HW50

Batch: B2C0702

Date Collected: 03/08/12 Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	. 11	11	11
						buse

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 Sample Type: Liquid

Blank (B2C0702-BLK1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	
Propylene glycol	U	2.0	
Ethylene glycol	U	2.0	

Blank (B2C0702-BLK2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result A mg/L Qu	nalyte Reporting valifiers Limit	
Propylene glycol	U	2.0	
Ethylene glycol	U	2.0	

LCS (B2C0702-BS1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE		Analyte Reporting Qualifiers Limit		%REC %REC Limits
Ethylene glycol	53.0	2.0	50.0	106 70-130

LCS (B2C0702-BS2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits	
Propylene glycol	50.6	2.0	50.0	101 70-130	
Ethylene glycol	58.0	2.0	50.0	116 70-130	

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 Sample Type: Liquid

Matrix Spike (B2C0702-MS1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	Source Result %REC	%REC Limits
Propylene glycol	55.7	2.0	66.7	83.6	70-130
Ethylene glycol	67.6	2.0	66.7	101	70-130

Matrix Spike Dup (B2C0702-MSD1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE		Analyte Reporting Qualifiers Limit			%REC Limits	RPD	RPD Limit
Propylene glycol	53.7	2.0	66.7	80.6	70-130	3.61	30
Ethylene glycol	67.5	2.0	66.7	101	70-130	0.08	30

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335 Page 12 of 16



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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-	Coll. Method	Analysis/Tumamund	TagiPresuvative/Bother	Station	Collected	For Lab Use Only
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Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335 Page 13 of 16



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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-	583		Case #: 075928	orsaza:			Lab Contact: Chinsty Western Lab Phone: 2819522157	Consact Chinky Wener Lab Phons: 2819302(37	15 CE
	MatricSampler	Mothod Mothod	Ansysis/Turracoins	Tag Preservative Bottles		Station Location	Collected	For Lab Use Only	3_
Kan Kan	Aspectal Jost Munsch	â	Elytere Styred, Elytere Clycol	19242 - NA. / 40miOlasaVali 19243 (-41A. / AGRISIASSVAS) (2)	13 (-344) (2)	F83	0358208 14.00		
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Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335 Page 14 of 16



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Descriped 35/2012						
						Late EPA R6 Lakonatory
Correnana Fedica Annina 7551 4835 1266		***************************************	Gree #: C75628		Catalogues	Lab Contect Offisty Warren Lab Phone: 2819832157
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Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335 Page 15 of 16

PROTECTED.

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

A This sample was extracted at a single acid pH.

HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be

considered minimum values.

AES Atomic Emission Spectrometer

CVAA Cold Vapor Atomic Absorption

ECD Electron Capture Detector

GC Gas Chromatograph

GFAA Graphite Furnace Atomic Absorption

ICP Inductively Coupled Plasma

MS Mass Spectrometer

NA Not Applicable

NPD Nitrogen Phosphorous Detector

NR Not Reported

TCLP Toxicity Characteristic Leaching Procedure

U Undetected

Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds per square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

Report Name: 1203005,1203007,1203012 FINAL 03 30 12 1335

Page 16 of 16

LIMS Final Report Checklist

Project Name:	Dimodk	Residential	Groundu	rater	,	
Project Number:	12SF073					
Work Order Numbers:	1203005,12	03007,10030	12			
Report Format:	Rochem	(29).rpt				
				Yes	No	N/A
1. Is the site name correct on the prin	nted report?			~		·
2. Is the Project Number correct on the	ne printed repo	ort?		~		
3. Are the sample collection dates correctly printed on the report?					,	
4. Is the correct contact person printe	ed on the repo	rt?				
5. Are the Work Order Number(s) cor	rect on the pr	nted report?		V		
6. Are the correct Work Orders include	led in the repo	ort?		~		
7. Are the Station IDs correct on the	orinted report?	•		/		
8. Is all appropriate sample data print	ting on the rep	ort?		/		
9. Is all of the case narrative printing	on the report?			/		·
10. Did all of the pages of the report	orint? Are the	y all numbered?	P160616	/		
11. If TCEQ parameters were reques LIMS and is the data printing correctly			ored in the			V
12. Has the EDD been created and s	aved?					
13. Has the PDF of the final report be	en created ar	nd saved?				

Reviewed By: Chuotx Warren	Date: 3/29/12
//	

U.S. EPA Region 6 Laboratory Lab Manager Review Checklist

SITE NAME:			•	Project #	125F073
Dimock Residential		W.		Work Ord Date Rev	125F073 er#: 120305, 67, 4/2 iew Started: 3/30/12
Items Reviewed					Comments
itellis Reviewed	N/A	Yes	No	Fixed	Continents
1. FINAL REPORT					
A. Cover Page Narrative					
Electronically Reviewed?		1	•		
2. Format / structure OK?		4			
3. Consistency / Readability OK?		1			·
4. Content OK?		6	4.1		
5. Quality issues addressed OK?					
6. Narrative issues have data Qualifiers?		-			
7. Other OK?	_				
B. Sample Listing Page				l de cons	
Number of Sample reports match?					7
2. Match the COC request OK?					
2. Station ID's present for all samples?		-		And the second s	•
3. Dates / matrix appear OK?				The state of the s	
C. Analytical Results				Was down	
1. Format / Readability OK?				CONTROL TO MARKING PARKETS OF THE PROPERTY OF	
2. Sample size / dilutions make sense?		-		The particular of the particul	W/A except ms/msp
3. Reporting limits OK and match result?		-			
4. Unusual results addressed in narrative?		-	jirist juli Jirist juli		
5. Qualifiers OK / addressed in narrative?					
6. Other OK?		1			
D. Quality Control		100			
Surrogate Problems addressed / OK?					
Organic - Air	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Canada de la companya	·
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2. Lab Blank Issues addressed / OK?					
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Organic - VOA					
Organic - ABN - DI Glypols			200		·
Organic - Pest/PCB	1		To a market year of the control of t		

SITE NAME:					Project#	t .
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SITE NAME:			Project	#:		
			Work Or Date Re	der #: view Started:		
E. Project Manager Review Issues						
Prep Holding times addressed / OK?			are lines		***************************************	
Analytic Hold Times addressed / OK?	/		200			
Dates make sense?						
Important Issues addressed / OK?	1 2					
F. Comments Section						
Important Comments addressed / OK?						
G. LIMS Issues						
LIMS functions OK?	-	1				
2. COC Cursory Review OK?			An examination of the party of the comment of the party of the comment of the party of the comment of the comme			
3. Work Order Cursory Review OK?						
4. Bench Sheets/Work Sheets Cursory Review OK?						
5. Check Lists Cursory Review OK?						
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7. CORRECTIVE ACTION INITIATED?		ين ال				
8. LIMS Sign-off?			4 20 (m)			
GENERAL COMMENTS:						
SIGNATURE: Julian MM/	Ille	١	DATE C	ompleted:	3/30/1	

Sample Log-In Peer Review Checklist

Proje	ect Nu	ımber:	125F073	
Work	Orde	r Num	bers: 1203005 12	20300
Yes	No	N/A	Comments Comments	
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